

55085 Miniature Vane Hall Effect Sensor



Features

- Sensor and magnet contained in a single housing
- Sensor operates when ferrous vane passes through slot
- 3 pin leadout integral to sensor
- Reverse/Over voltage protection
- Built in temperature compensation

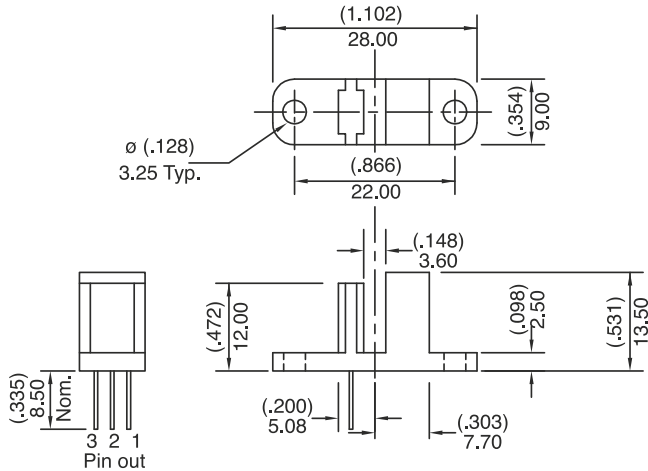
Benefits

- High switching speed up to 10kHz
- Long life; up to 20 billion operations
- Unaffected by harsh environments
- Operates in static or dynamic magnetic field
- Small package size
- Simple installation

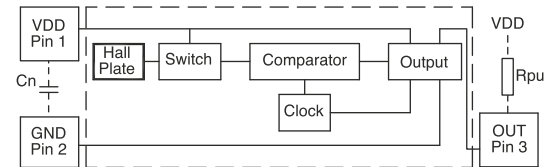
Applications

- Position and limit sensing
- Shaft rotation sensing
- Security systems
- Linear actuators
- Angle sensing
- Magnetic encoders

DIMENSIONS (in) mm



BLOCK DIAGRAM



Notes:

1. Add capacitor Cn as shown, close to the sensor, for transient suppression if required.
2. Add resistor Rpu as shown for sinking output.

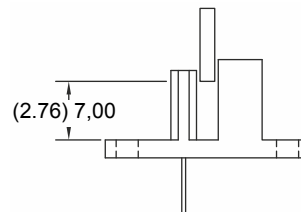
SPECIFICATIONS

Specifications			Digital Switch
Hall Type			3 Wire (Voltage output)
Supply Voltage (Note1)	Absolute Range	Vdc	-15 to +28
	Recommended	Vdc	+3.8 to +24
	Overvoltage Protection	Vdc - max.	32
Output High Voltage	Vdc		Sinking output (Pull Up Resistor Required)
Output Low Voltage	Vdc - max.		0.4 @ 20mA
Output Current (continuously on)	mA - max.		20
Switching Speed	Khz - max.		10
Temperature	Operating	°C	-40 to +100
	Storage	°C	-65 to +105

Note 1 - As long as Tj (Junction Temperature) max. is not exceeded.

ACTIVATIONS (in) mm

Activate Distance is approximate using a (.100) 2,54 mm thick ferrous vane as illustrated.



ORDERING INFORMATION

55085 - 3M - 00 - 0

Series 55085

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